

South Africa

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South African Progress in RE Systems

- PV, few hybrids in clinics and schools
- SHS/BCS projects, Wind, PV powered water pumping
- PV/diesel hybrids: farms, resorts, telecommunications
- Hybrid demo systems planned

Still Needed

- Training, participation, and entrepreneur selection
- Clustered projects for sustainable O&M
- Integration of activities and services
- Access to financing and markets, competitive products
- Monitoring and evaluation.

Government Policy

Nelson Mandela in 1995:

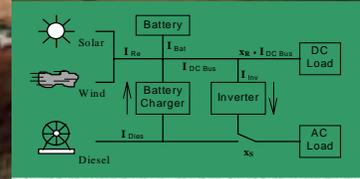
- Eliminate poverty - create employment in rural areas
- Government committed to integrated rural development
- 73% rural households not electrified by the end of 1996

Social equity framework:

- PV/off-grid electrification of rural households

Economic development framework:

- PV/off-grid electrification of rural centers of productive activities.



Income/Employment Generating Activities

Businesses that use PV/off-grid electricity

- Mainly in retail
- PV/hybrid grid electricity to improve output and quality
- Irrigation for farms and agricultural processing

Business creation through PV/off-grid infrastructure

- Trained PV electricians
- Franchises with local shops (e.g., PV Battery Charging), equipment is marketed
- Good PV/off-grid industry infrastructure in South Africa.

PV School and Clinic Programmes

- Education, healthcare, meeting facilities create empowerment and contribute long-term to productivity
- **Schools program** is Eskom driven (RDP/donor funds)
 - 1200 PV systems for schools installed so far
- **Clinic program** is IDT driven
 - 150 PV and PV-hybrid electrified clinics so far
 - Lights, vaccine refrigerators, and 2-way radios
 - Progress slow, but O&M sustainable.

